BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Name of Work:-Detailed **Sub** Estimate for Providing Electrification and fixtures to Newly Built Day-Nalm Project Ashraya Yojana building at Deffence Layout in Ward No 05 byatrayanapura sub Division.

Budget Head :

Ward No. 05 **Estimate No:-** 54 **For Rs.** **138441.60**

Sl No	SR Page & SL No	Description Of Work	Unit	Qty	Rate	Amount
1	5/1.2.1	Concealed Conduit System Supplying heavy gauge PVC conduit pipe ……mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary19/20mm dia 2mm thick	R/Mtrs	30.00	43.00	1290.00
2	5/1.2.2	25mm dia 2mm thick	R/Mtrs	55.00	57.00	3135.00
3	1.3	Supplying heavy gauge PVC Conduit Pipe ….dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.19/20mm dia 2mm thick		25.00	56.00	1400.00
4	1.3.2	25mm dia 2mm thick	Mtr	35.00	58.00	2030.00
5	3/1.12	Supplying And Fixing Metal Fan Box with Round Hook.	No	12.00	92.00	1104.00
6	15/3.5.1	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall1-3Way	Each	3.00	91.00	273.00
7	15/3.5.2	4-5Way	Each	5.00	98.00	490.00
8	15/3.5.3	6Way	Each	4.00	121.00	484.00
9	6/2.4.1	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2X1.5Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet.GROUP BShort point upto 3Mtr from tapping point to out let via switch box	Point	10.00	130.00	1300.00
10	6/2.4.2	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box	Point	10.00	190.00	1900.00
11	6/2.4.3	Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box	Point	10.00	291.00	2910.00

12	3.6	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.1 to 3 Module		3.00	109.00	327.00
13	3.6.2	4 Module	Each	5.00	122.00	610.00
14	3.6.3	6 Module	Each	4.00	173.00	692.00
15	3.7.B	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP B 6Amps one way.		30.00	50	1500.00
16	3.7.14	6Amps Two way.	Each	4.00	70.00	280.00
17	3.7.15	6Amps 3way socket.	Each	5.00	77.00	385.00
18	3.7.16	Stepped Fan Regulator.	Each	12.00	236.00	2832.00
19	3.7.19	16Amps one way switch	Each	5.00	92.00	460.00
20	3.7.22	6/16Amps universal socket	Each	5.00	120.00	600.00
21	06/2.6	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B.1.5 sqmm	Mtrs	120.00	15.90	1908.00
22	2.6.3	2.5 sqmm	Mtrs.	250.00	24.90	6225.00
23	2.6.4	4 sqmm	Mtrs.	200.00	36.30	7260.00
24	25/4.29	LED Indoor Supplying of 4' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition LED light fighting 4' - 28 watts	Nos	12.00	1774.00	21288.00
25	9.1	Supplying exhaust fan of 1440 RPM of 300mm (12") size with bracket blades complete for light duty suitable to operate on 230V 50Hz, AC Supply.	Nos	2.00	1700.00	3400.00
26	9.3.1	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm)Regular model	Nos	12.00	1900.00	22800.00
27	49/6.40.2	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG	Sqcms	0.33	5400.00	1782.00

28	47/6.17.II.4	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Double Door4Way SP &N	Nos	2.00	1067.00	2134.00
29	47/6.16	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.5-32Amps SP	Nos	6.00	418.00	2508.00
30	47/6.16.3	5-32 Amps DP	Nos	2.00	849.00	1698.00
31	1806.7.2	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.32Amps	Nos	2.00	45.00	90.00
32	55/7.4.5	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.3.5 core 25 sqmm	Mtrs	50.00	165.60	8280.00
33	55/7.1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	No	2.00	2727.00	5454.00
34	62/7.9	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs	35.00	78.00	2730.00
35	62/7.12.1	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm	Mtrs	6.00	345.00	2070.00
36	62/7.13.3	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.25Sqmm	Nos	1.00	362.00	362.00
37	108/17.5	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Nos	2.00	176.00	352.00
38	17.7.1	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall / ceiling / Rafter / Girders	Nos	12.00	98.00	1176.00

39	17.8	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring.	Nos	12.00	139.00	1668.00
40	17.1	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts and 5 amps. ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire.	Nos	2.00	412.00	824.00
41	26/4.35.3	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.LED Streetlight 65watts	Nos	3.00	18720.00	56160.00
		Totl Rs				**174171.00**
		Add KRIDL Charges 10%				17417.10
		Add 1% Labour Cess				1741.71
		BESCOM Charges				6670.19
		Grand Total Rs				**200000.00**

TECHNICALLY SANCTIONED FOR Rs. 2.00 lac
Rupees Two Lakhs only
Vide D2583
Registered as EE( ) No. 99
Subject to conditions contained in
endorsed memo EE( ) No. BBMP/EE/BTP/34/18-19
Dt. 15.10.2018 Estimate A/N Sanctioned
RBMP/EE(Ele)/92/78/31/18-19
Dated Dt 14.02.2019
Executive Engineer

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) S.R.2014-15 ,

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE